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AIRBORNE RESEARCH ASSOCIATES

46 KENDAL COMMON ROAD . WESTON, MASSACHUSETTS 02193 . (617) 899-1834

6 March 1979

Mr. James Hughes Director, Atmospheric Science Programs (465) Office of Naval Research Arlington, VA. 22217

Dear Mr. Hughes,

As per your instructions I am submitting a list of publications as a final report on my Contract No. N00014-74-C-0336. These papers represent research done with support wholly or in part by this contract.

- Markson, R., 1975: Atmospheric electrical detection of organized convection, Science, 188, 1171-1177.
- Markson, R., 1976: Ionospheric potential variations obtained from aircraft measurements of potential gradient, J. Geophys. Res., 81, 1980-1990.
- Markson, R., 1977: Mechanism for solar control of atmospheric electrification and weather, -in: Collection of Extended Summaries of Contributions

 Presented at Joint IAGA/IAMAP Assembly, Seattle, Wash., 22 Aug.-3 Sept.,

 1977. Joint Symposium C., Influence of Solar Activity and Geomagnetic Change on Weather and Climate, available from S. Ruttenberg., Sec. Gen. IAMAP, NCAR, Box 3000, Boulder, Colorado 80303.
- Markson, R., 1977: Secular decrease in ionospheric potential, in-: H. Dolezalek and R. Reiter (Editors), <u>Electrical Processes in Atmospheres</u>, Dietrich Steinkopff, Darmstadt, Germany.
- Markson, R., 1977: Airborne atmospheric electrical measurements of the variation of ionospheric potential and electrical structure through the atmospheric exchange layer over the ocean, -in: H. Dolezalek and R. Reiter (Editors), Electrical Processes in Atmospheres, Dietrich Steinkopff, Darmstadt, Germany.
- Markson, R., 1977: Atmospheric electrical air tracing and air mass determination, in-: H. Dolezalek (Editor), <u>Applications of Atmospheric Electricity Concepts and Methods to Other Parts of Meteorology</u>, Tech. Note 162, World Meteorological Organization, Geneva, Switzerland.
- Markson, R., 1978: Solar modulation of atmospheric electrification and possible implications for the sun-weather relationship, Nature, 273, 103.
- Markson, R., 1979: Reply to L. Hale, letter, Nature (in press).

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- Markson, R., D. Blumenthal, J. Sedlacek and M. Muir, 1979: Atmospheric electrical plume detection: theory and field measurements, <u>Bull. Amer. Meteor. Soc.</u> (in press). To appear in Feb. 1979 issue.
- Markson, R., 1979: Atmospheric electricity and the sun-weather problem, in-: B. McCormac (Editor), Proc. Symposium/Workshop Solar-Terrestrial Influences on Weather and Climate, Ohio State University, July 1978, Reidel, Dordrecht (Holland)/Hingham (Massachusetts), (in press).
- Vonnegut, B. and R. Markson, 1976: Electrical detection of waves at water-air surface, Presented at Ocean Engineering III Symposium, Univ. Delaware, 9-12 June, 1975, Proceedings titled <u>Civil Engineering in the Oceans/III</u>, American Society of Civil Engineers
- Lane-Smith, D.R. and R. Markson, 1977: Atmospheric electrical measurements during the 1972 eclipse over Nova Scotia, in-: H. Dolezalek and R. Reiter (Editors), Electrical Processes in Atmospheres, Dietrich Steinkopff, Darmstadt, Germany.
- Markson, R. and M. Muir, 1979: Solar wind control of the earth's electric field: the electrical connection between the sun and weather, (submitted for publication to Science).

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Very truly yours,

Enough Wilankson

Ralph Markson

